

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/019328

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl' H01M10/40, H01M4/02, H01M2/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl' H01M2/00-2/08, H01M4/00-4/62, H01M10/40

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

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Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

CA (STN)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 2002-124297 A (Ube Industries, Ltd.), 26 April, 2002 (26.04.02), Claims 1, 2; Par. Nos. [0011], [0017], [0018]; example 5; Par. No. [0044] (Family: none)	1-7
Y	JP 2002-343426 A (Mitsui Chemicals, Inc.), 29 November, 2002 (29.11.02), Claims 1, 12, 15; Par. Nos. [0044], [0046] to [0048]; example 3 (Family: none)	1-7
Y	JP 2001-43899 A (Toshiba Corp.), 16 February, 2001 (16.02.01), Claim 1 (Family: none)	2

 Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

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"P" document published prior to the international filing date but later than the priority date claimed

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"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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"&" document member of the same patent family

Date of the actual completion of the international search
20 January, 2005 (20.01.05)Date of mailing of the international search report
08 February, 2005 (08.02.05)Name and mailing address of the ISA/
Japanese Patent Office

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 8-50923 A (Sumitomo Chemical Co., Ltd.), 20 February, 1996 (20.02.96), Claim 1 & CA 002148860 A1 & EP 000682377 A1 & CN 001119350 A & US 005595842 A & DE 069511321 T	3-6
Y	JP 2003-282140 A (Osaka Gas Co., Ltd.), 03 October, 2003 (03.10.03), Claim 1 (Family: none)	3-6
Y	JP 11-283668 A (Sanyo Electric Co., Ltd.), 15 October, 1999 (15.10.99), Claims 1, 4 (Family: none)	7
A	JP 2000-195545 A (Ube Industries, Ltd.), 14 July, 2000 (14.07.00), (Family: none)	1-7
A	JP 2003-059529 A (Ube Industries, Ltd.), 28 February, 2003 (28.02.03), (Family: none)	1-7